

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: February 3, 2003, 12:50:42 ; Search time 72 Seconds

(without alignments)
10989.251 Million cell updates/sec

Title: US-10-047-593-5

Perfect score: 2580
Sequence: 1 gcggcgccgctatacagcacc.....cgctctaggaggtcaccgt 2580

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|----|-------------------|
| 1 | 91.8 | 3.6 | 7218 | 1 | US-08-232-463-14 |
| 2 | 76 | 2.9 | 2873 | 1 | US-08-149-695-1 |
| 3 | 76 | 2.9 | 2873 | 1 | US-08-377-228-1 |
| 4 | 64 | 2.5 | 2687 | 1 | US-08-149-695-8 |
| 5 | 64 | 2.5 | 2687 | 1 | US-08-377-228-8 |
| 6 | 53.6 | 2.1 | 289 | 4 | US-09-007-005-17 |
| 7 | 53.6 | 2.1 | 289 | 4 | US-09-244-796-17 |
| 8 | 53 | 2.1 | 862 | 3 | US-08-713-569-4 |
| 9 | 40.8 | 1.6 | 123 | 4 | US-09-007-005-1 |
| 10 | 40.8 | 1.6 | 123 | 4 | US-09-244-796-1 |
| 11 | 40.6 | 1.6 | 1765 | 1 | US-08-336-772-2 |
| 12 | 39.6 | 1.5 | 277 | 4 | US-09-007-005-3 |
| 13 | 39.6 | 1.5 | 277 | 4 | US-09-244-796-3 |
| 14 | 39.4 | 1.5 | 2661 | 2 | US-08-351-413-1 |
| 15 | 39.4 | 1.5 | 2661 | 2 | US-09-025-583-1 |
| 16 | 39.4 | 1.5 | 53526 | 3 | US-08-658-136-2 |
| 17 | 39.4 | 1.5 | 53577 | 3 | US-08-658-136-1 |
| 18 | 39.4 | 1.5 | 8750 | 3 | US-08-781-891-79 |
| 19 | 39.4 | 1.5 | 87543 | 4 | US-09-791-211-3 |
| 20 | 39 | 1.5 | 8585 | 4 | US-08-030-096-3 |
| 21 | 38.8 | 1.5 | 15567 | 4 | US-09-627-376-3 |
| 22 | 38.6 | 1.5 | 16442 | 3 | US-08-781-891-208 |
| 23 | 38.4 | 1.5 | 446 | 2 | US-08-332-766A-10 |
| 24 | 38.2 | 1.5 | 434 | 2 | US-08-332-766A-10 |
| 25 | 38 | 1.5 | 1231 | 1 | US-08-314-596-44 |
| 26 | 38 | 1.5 | 1231 | 1 | US-08-320-982-44 |
| 27 | 38 | 1.5 | 1231 | 3 | US-08-819-037-44 |

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|------|------|-----|-------|---|--------------------|--------------------|
| C 28 | 38 | 1.5 | 1231 | 4 | US-09-045-940-44 | Sequence 44, Appl |
| C 29 | 38 | 1.5 | 1372 | 4 | US-09-133-962A-1 | Sequence 1, Appl |
| C 30 | 38 | 1.5 | 11703 | 4 | US-09-101-886B-3 | Sequence 1, Appl |
| C 31 | 37.8 | 1.5 | 1977 | 1 | US-08-578-709-14 | Sequence 14, Appl |
| C 32 | 36.8 | 1.4 | 248 | 4 | US-09-007-005-32 | Sequence 32, Appl |
| C 33 | 36.8 | 1.4 | 248 | 4 | US-09-244-796-32 | Sequence 32, Appl |
| C 34 | 36.8 | 1.4 | 14187 | 4 | US-09-453-702B-121 | Sequence 121, App |
| C 35 | 36.4 | 1.4 | 789 | 6 | 5219739-8 | Patent No. 5219739 |
| C 36 | 36.4 | 1.4 | 790 | 6 | 5194596-8 | Patent No. 5194596 |
| C 37 | 36.4 | 1.4 | 2760 | 1 | US-08-101-593-1 | Sequence 1, Appl |
| C 38 | 36.4 | 1.4 | 2973 | 4 | US-09-133-962A-15 | Sequence 15, Appl |
| C 39 | 36.4 | 1.4 | 3981 | 3 | US-09-008-979A-7 | Sequence 7, Appl |
| C 40 | 36.4 | 1.4 | 3981 | 4 | US-09-460-618-7 | Sequence 7, Appl |
| C 41 | 36.4 | 1.4 | 3981 | 4 | US-09-310-235B-7 | Sequence 7, Appl |
| C 42 | 36 | 1.4 | 14273 | 4 | US-08-961-527-40 | Sequence 40, Appl |
| C 43 | 35.8 | 1.4 | 309 | 4 | US-09-342-681C-115 | Sequence 115, App |
| C 44 | 35.6 | 1.4 | 2338 | 4 | US-08-845-258-13 | Sequence 13, Appl |
| C 45 | 35.6 | 1.4 | 2338 | 4 | US-08-990-571-13 | Sequence 13, Appl |

ALIGNMENTS

RESULT 1
US-08-232-463-14
Sequence 14, Application US/08232463
Patent No. 5670367
GENERAL INFORMATION:
APPLICANT: DORNER, F.
APPLICANT: SCHEIFLINGER, F.
TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 1800 Diagonal Road, Suite 500
CITY: Alexandria
STATE: VA
COUNTRY: USA
ZIP: 22313-0299
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/232,463
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/935,313
FILING DATE:
APPLICATION NUMBER: EP 91 114 300.6
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 30472/114 IMMUN
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)836-9300
TELEFAX: (703)683-4109
TELEX: 899149
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 7218 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
CLONE: pTZgpt-Fls
US-08-232-463-14
Query Match 3.6%; Score 91.8; DB 1; Length 7218;

Best Local Similarity 3.4%; Pred. No. 3.7e-16;
Matches 12; Conservative 238; Mismatches 105; Indels 0; Gaps 0;

[illegible]

RESULT 2
US-08-149-695-1

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;
; ORGANISM: Zea mays
; STRAIN: Line W22
; TISSUE TYPE: Pollen
US-08-149-695-1

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| Query Match | 2.9% | Score 76; | DB 1; | Length 2873; |
| Best Local Similarity | 61.4%; | Pred. No. 8.3e-12; | | |
| Matches 172; Conservative | 0; | Mismatches 105; | Indels 3; | Gaps 3; |

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| Qy | 769 | GGCGCTGTTTAAAGGGGGCCCGGCGCTGGTGCACCGAACAATGATATGAGGCTTAAATCA | 828 |
| Db | 129 | GTCCTGGATGACCGGACACATGTCGTGGCATACCAAGACAGTCCCGTGTGCCAGATCAG | 188 |
| Qy | 829 | GCACACTCAAGTCCCTTGGCTCAATTTTATATGTGTGGCTACTGGATTTCTTTTGGT | 888 |
| Db | 189 | GCACCCCTCGGTCCCTTGGCTCTCTTGGCTTTGGAACCCCTAACCTTGAATGCTTATGGTT | 248 |
| Qy | 889 | TGTGTTGAACC-TTATGACACTGAGATTAATCATCTAG-CCAACTAGTAGTCATG | 946 |
| Db | 249 | TGTGTTGAACCTTTATGCACTGTGGAAATATATATCTGAACAACCTAGTAGTCCAAAT | 308 |
| Qy | 947 | TGCTTTGTGTGATCGTCACTCTAAATCTATTTATATGAAGGTGAACCCATATTC | 1006 |
| Db | 309 | CATTGTGTTGGGCACTCAACCAAAATATATTTATAGAAAAAGGTAAACCTTATTC | 368 |
| Qy | 1007 | CGCTTC-AGCAACTATATATAGGCTGAGACCTGACA | 1045 |
| Db | 369 | CCATTCAATCTCCCCCTTTTGGTGAATGATGCAACACA | 408 |

RESULT 3
US-08-377-228-1
; Sequence 1, Application US/08377228

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; ORIGINAL SOURCE:
; ORGANISM: Zea mays
; STRAIN: Line W22

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|---------------------------|--------|--------------------|-----------|--------------|
| Query Match | 2.5% | Score 64; | DB 1; | Length 2687; |
| Best Local Similarity | 64.5%; | Pred. NO. 2.4e-08; | | |
| Matches 142; Conservative | 0; | Mismatches 75; | Indels 3; | Gaps 3 |

OY 829 GCACACICAGTCCTTGCCTCATTTTATGTCGGCTAACGTGAATTCTTTTGCTT 88
||| ||| ||| ||| ||| ||| ||| ||| |||
Db 3 GCACCCTTCGGTCCCTTTCCTTGTCTTTGTAACCTTAATTGATCGTTAATTGGTT 62

D6 63 TGTGTTGAACCTTTATGCACCTGTGAAATATATACTAGAACAACTAGTTGTCGAAT 12

Db 123 CATTGTGTGGCATTACACCAACCAATTATTATAGGAAAAGTTAACTTATTTTC 182

Db 183 CCTTCATCTCCCCCTTTTGCGATTGATGCCACACA 222

RESULT 5
US-08-377-228-8
; Sequence 8, Application US/08377228

; facsimile NO. 5555546
 ;
 ; GENERAL INFORMATION:
 ;
 ; APPLICANT: ALLEN, Rebecca L.
 ;
 ; APPLICANT: LONSDALE, David M.

CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500

CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20007-5109

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0. Version #1 36

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; FILING DATE: 24-JAN-1995
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:

```

APPLICATION NUMBER: US 08/149,695
FILING DATE: 09-NOV-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IIS 07/931 533

FILED DATE: 09-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.

TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 672-5300
TELEFAX: (202) 672-5399
TELETYPE: 004135

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; INFORMATION FOR SEQ ID NO: 8
;
; SEQUENCE CHARACTERISTICS:
;     LENGTH: 2687 base pairs

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; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
MS-08-1377-228-8

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Query Match 2.5%; Score 64; DB 1; Length 2687;
Best Local Similarity 64.5%; Pred. No. 2,4e-08;
Matches 142; Conservative 0; Mismatches 75; Indels 3; Gaps 3;

QY 829 GCACACCTCAATCCCTGCTTCTTATTTTATTTGTCGCTACTGATTTCTTTTGGT 888
DB 3 GCACCTTCGCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 62
QY 889 TGTGTGAACCTTATGACCTGAGATTAATCACTAGC-CAACTAGTTAGTCATG 946
DB 63 TGTGTGAACCTTATGACCTGAGATTAATCACTAGC-CAACTAGTTAGTCATG 122
QY 947 TGTGTGTGTGATGCTCACTCAATTAATCACTAGTTAGTTAGTTAGTTAGTT 1006
DB 123 CATTTGCTGCTGCTTCACTCAATTAATCACTAGTTAGTTAGTTAGTTAGTT 182
QY 1007 CTTTTC-AGCACACTCTATATAGTCTTGAAGCTTCGACA 1045
DB 183 CTTTTCATCTCCCTTTTGTGATGATGACCAACACA 222

RESULT 6

US-09-007-005-17/c
; Sequence 17, Application US/0907005B
; Patent No. 6258558
; GENERAL INFORMATION:
; APPLICANT: Szoestak, Jack W.
; APPLICANT: Roberts, Richard W.
; APPLICANT: Liu, Rihne
; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
; FILE REFERENCE: 00786/350003
; CURRENT APPLICATION NUMBER: US/09/007,005B
; EARLIER FILING DATE: 1998-01-14
; EARLIER APPLICATION NUMBER: 60/035,963
; EARLIER FILING DATE: 1997-01-27
; EARLIER APPLICATION NUMBER: 60/064,491
; EARLIER FILING DATE: 1997-11-06
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 289
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Translation template
; NAME/KEY: misc_feature
; LOCATION: (1)...(289)
; OTHER INFORMATION: n = A,T,C or G
US-09-007-005-17

Query Match 2.1%; Score 53.6; DB 4; Length 289;
Best Local Similarity 12.6%; Pred. No. 7e-06;
Matches 35; Conservative 110; Mismatches 133; Indels 0; Gaps 0;

QY 2141 GGAATTTTACTGTTTATCTATCTCTCCGCGCTCTAGTATCTCTTC 2200
DB 289 GGTATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT 230
QY 2201 CTGTCGAGTCGCTCTTCTTCAATCACTCTTCCCACTCTTCTCTTCTTC 2260
DB 229 YAGYCTTGTGYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYS 170
QY 2261 CAGCGAAGCTGCTTCCCGGAGCTCTTCTTCAAGATTCGTTGAGACCCCTACGCTCC 2320
DB 169 YNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYS 110
QY 2321 TCAATGAGTCGCTGCGCCCTCCAGACCGGCAACAATCCCTCAGCTTATCCCTGTAGC 2380
DB 109 YNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYS 50
QY 2381 TACTATGCTGCTCTTGTGATCCCTTTTTCATCTGTCT 2418

DB 49 YGYTAAVATYTYGTYAAVATYAAVATYAAVATY 12

RESULT 7

US-09-244-796-17/c
; Sequence 17, Application US/09244796
; Patent No. 6281344
; GENERAL INFORMATION:
; APPLICANT: Szoestak, Jack W.
; APPLICANT: Roberts, Richard W.
; APPLICANT: Liu, Rihne
; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
; FILE REFERENCE: 00786/350007
; CURRENT APPLICATION NUMBER: US/09/244,796
; EARLIER FILING DATE: 1999-02-05
; EARLIER APPLICATION NUMBER: 60/035,963
; EARLIER FILING DATE: 1997-01-27
; EARLIER APPLICATION NUMBER: 60/064,491
; EARLIER FILING DATE: 1997-11-06
; EARLIER APPLICATION NUMBER: 09/007,005
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 289
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Translation template
; NAME/KEY: misc_feature
; LOCATION: (1)...(289)
; OTHER INFORMATION: n = A,T,C or G
US-09-244-796-17

Query Match 2.1%; Score 53.6; DB 4; Length 289;
Best Local Similarity 12.6%; Pred. No. 7e-06;
Matches 35; Conservative 110; Mismatches 133; Indels 0; Gaps 0;

QY 2141 GGAATTTTACTGTTTATCTATCTCTCCGCGCTCTAGTATCTCTTC 2200
DB 289 GGTATTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTT 230
QY 2201 CTGTCGAGTCGCTCTTCTTCAATCACTCTTCCCACTCTTCTCTTCTTC 2260
DB 229 YAGYCTTGTGYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYS 170
QY 2261 CAGCGAAGCTGCTTCCCGGAGCTCTTCTTCAAGATTCGTTGAGACCCCTACGCTCC 2320
DB 169 YNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYS 110
QY 2321 TCAATGAGTCGCTGCGCCCTCCAGACCGGCAACAATCCCTCAGCTTATCCCTGTAGC 2380
DB 109 YNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYSYNNYS 50
QY 2381 TACTATGCTGCTCTTGTGATCCCTTTTTCATCTGTCT 2418
DB 49 YGYTAAVATYTYGTYAAVATYAAVATYAAVATY 12

RESULT 8

US-08-713-569-4/c
; Sequence 4, Application US/08713569
; Patent No. 6040185
; GENERAL INFORMATION:
; APPLICANT: Dietrich, Paul S
; APPLICANT: Van Grinsven, Martinus QJM
; APPLICANT: Gijlen, Johannes JI
; APPLICANT: De Haas, Johannes M
; APPLICANT: Van Driel, Roeland
; TITLE OF INVENTION: Genetic Stabilizing Elements


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; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2661 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Zea mays
; STRAIN: inbred line W-22
; PUBLICATION INFORMATION:
; AUTHORS: Hamilton et al.,
; JOURNAL: Sex Plant Reprod.
; VOLUME: 2
; PAGES: 208-
; DATE: 1989
;
US-09-025-583-1

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Query Match 1.5%; Score 39.4; DB 2; Length 2661;
Best Local Similarity 62.0%; Pred. No. 0.31;
Matches 80; Conservative 0; Mismatches 46; Indels 3; Gaps 1;

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QY 1563 AAGGACTGTTTGTGGACCTTGAACATAGCTTTAAAGTATTCACATTTA 1622
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DB 39 AAGGAGAGTATTTTCGACCTTCGGCGTAAAGCTT--CGTCAGATCGCATCTA 95
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QY 1623 AGCTGTATGTAAACAACAACTAATTCGAGAGAGCTGATTGAGAGAAAGTCTGCGGT 1682
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 96 AATTATATTTTGAACAATAATTAATTCGAGGGGCTACTGTGGGACCTTCGGCATC 155
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1683 CGATGATTC 1691
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DB 156 CGAGGATCC 164
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Search completed: February 3, 2003, 17:31:34
 Job time : 112 secs